GEP 5-10kW

Single-phase | 3 MPPTs

GEP5.0-1C-10 | GEP8.5-1-10 | GEP10-1-10

High Power Generation

- 3 MPPTs
- Up to 200% DC oversizing
- Start-up voltage of only 80 V

Intelligent Control

- Load consumption monitoring
- Smart Shadow Scan
- Inbuilt Export Control

The GEP 5-10kW is the ultimate solution for residential systems. This powerful single-phase model boasts 3 MPPTs for maximum power retention and absolute minimum power loss. With a startup voltage of only 80 V, this superior, intelligently efficient inverter is specifically designed to harness solar power from sunrise to sunset, regardless of irradiation and weather conditions. Extra reflections from the backside of bifacial panels drive the inverter to its maximum capacity and unleash its full potential of 200% DC oversizing, allowing for up to 110% AC overloading. All these features intelligently packed into a lightweight model for a simple installation.

GEP 5-10kW

3 MPPTs | Single-phase

Technical Data	GEP5.0-1C-10	GEP8.5-1-10	GEP10-1-10
Input			
Max.Input Power (W)	10000	13500	13500
Max. Input Voltage (V)	600	600	600
MPPT Operating Voltage Range (V)	80 ~ 550	80 ~ 550	80 ~ 550
Start-up Voltage (V)	80	80	80
Nominal Input Voltage (V)	360	360	360
Max. Input Current per MPPT (A)	13 / 13 / 13	13 / 13 / 13	13 / 13 / 13
Max. Short Circuit Current per MPPT (A)[*1]	16.3 / 16.3 / 16.3		
Number of MPP Trackers	3	3	3
Number of Strings per MPPT	1	1	1
Output			
Nominal Output Power (W)	5000	8500	10000
Nominal Output Apparent Power (VA)	5000	8500	10000
Max. AC Apparent Power (VA)	5500	9350	10000
Nominal Output Voltage (V)	220 / 230	220 / 230	220 / 230
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	23.9	42.5	45.5
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion	<3%	<3%	<3%
Efficiency			
Max. Efficiency	97.7%	97.8%	97.8%
European Efficiency	97.3%	97.5%	97.5%
Protection			
Residual Current Monitoring	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated
DC Surge Protection	Integrated (Type II)		
AC Surge Protection	Integrated (Type II)		
General Data			
Operating Temperature Range (°C)	-25 ~ 60	-25 ~ 60	-25 ~ 60
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%
Max. Operating Altitude (m)	≤4000	≤4000	≤4000
Cooling Method	Natural Convection	Natural Convection	Natural Convection
Display	LCD & LED	LCD & LED	LCD & LED
Communication	Wi-Fi / RS485 / LAN (Optional)		
Weight (kg)	22.5	22.5	22.5
Dimension (W × H × D mm)	511 × 415 × 175		
Topology	Transformerless		
Self-consumption at Night (W)	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65
Country of Manufacture	China	China	China

*1: For Australia Max. Short Circuit Current per MPPT (A) please refer to 'Manufacturer declaration: short circuit current'.